

Zhi Li

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| CONTACT INFORMATION | School of Computer Science and Technology Hangzhou Dianzi University Hangzhou 310018 China | <i>Phone:</i> (+86) 187-6713-5921 <i>E-mail:</i> zhili.pro@gmail.com <i>Homepage:</i> http://zhili42.com |
| RESEARCH INTERESTS | Mobile and Sensor Networks, Mobile Crowdsourcing, Machine Learning, Game Theory. | |
| SKILLS | Basic: Algorithm design and analysis, System implementation Programming: Java, Android, Python, NesC, TinyOS Language: Chinese (Native), English (TOEFL: R27 + L27 + S19 + W23 = 96) | |
| HONORS AND AWARDS | Outstanding Graduate Student in Zhejiang Province Outstanding Graduate Student in Hangzhou Dianzi University National Scholarship for Graduate Student (11/304) Nokia Scholarship for Graduate Student (2/147) National Scholarship for Graduate Student (10/283) The First Prize Academic Scholarship, Hangzhou Dianzi University (10%) | 2017 2017 2016 2015 2015 2015 - 2016 |
| PUBLICATIONS | Conference Papers <ol style="list-style-type: none">1. Jianhui Zhang, Pengqian Lu, Zhi Li, Jiayu Gan. “*”. Submitted to <i>IEEE INFOCOM’18</i>, under review.2. Zhi Li, Jianhui Zhang, Jiayu Gan, Pengqian Lu, Fei Lin. “Large-Scale Trip Planning for Bike-Sharing System”. In <i>IEEE MASS</i>, Short paper, Orlando, FL, USA. Oct 22 - 25, 2017.3. Jianhui Zhang, Zhi Li, Xiaojun Lin, Feilong Jiang. “Composite Task Selection with Heterogeneous Crowdsourcing”. In <i>IEEE SECON</i>, San Diego, CA, USA. Jun 12 - 14, 2017.4. Jianhui Zhang, Mengmeng Wang, Zhi Li. “Stochastic Duty Cycling for Heterogeneous Energy Harvesting Networks”. In <i>IEEE IPCCC</i>, Nanjing, China. Dec 14 - 16, 2015. Journal Articles <ol style="list-style-type: none">1. Jianhui Zhang, Mengmeng Wang, Zhi Li. “Charge-aware Duty Cycling Methods for Wireless Systems under Energy-Harvesting Heterogeneity”. Submitted to <i>IEEE TMC</i>, under review.2. Zhi Li, Jianhui Zhang, Xingfa Shen, Jin Fan. “Prediction Based Indoor Fire Escaping Routing with Wireless Sensor Network”. <i>Peer-to-Peer Networking and Applications</i>, 10(3): 697 - 707. [Impact Factor: 1.0]3. Jianhui Zhang, Zhi Li, Shaojie Tang. “Value of Information Aware Opportunistic Duty Cycling in Solar Harvesting Sensor Networks”. <i>IEEE TII</i>, 12(1): 348 - 360, 2016. [Impact Factor: 4.708]4. Jianhui Zhang, Zhi Li, Feng Xia, Shaojie Tang, Xingfa Shen, Bei Zhao. “Cooperative Scheduling for Adaptive Duty Cycling in Asynchronous Sensor Networks”. <i>The Computer Journal</i>, 58(6): 1267 - 1279, 2014. [Impact Factor: 0.787] | |
| PRESENTATION | Stochastic Duty Cycling for Heterogeneous Energy Harvesting Networks - Paper presented at the 34th IEEE International Performance Computing and Com- | |

munications Conference (IPCCC), Nanjing, China. Dec 15 2015.

RESEARCH PROJECTS

Crowdsourcing Based Bike-Sharing System, 2016 - present

- Designed two algorithms to solve the static trip planning problem, the paper is accepted by IEEE MASS'17.
- Built a crowdsourcing platform to collect real-time bike resources information and to provide bike utilization guidance for users.
- Built an application to crawl real-time open bike-sharing information of Hangzhou Public Bicycle.

Internet of Things Based Fire Escaping System, 2014 - present

- Constructed a fire spread model based on fire data generated by Fire Dynamics Simulator and proposed a fire escaping route planning algorithm based on fire spread prediction. The paper is published in Peer-to-Peer Networking and Applications.
- Designed a smartphone based crowd density detection approach and two crowd density detection algorithms based on Quorum System.
- Built a fire escaping experiment platform with TelosB nodes.
- Built a network with TelosB nodes, Android smartphones and Arduino suite.

GRANTS

1. **Excellent Master Dissertation Fostering Foundation**, Hangzhou Dianzi University, PI: Zhi Li, May 2016 - Mar 2017
Project title: "Internet of Things Based Fire Escaping System".
2. **Graduate Scientific Research Foundation**, Hangzhou Dianzi University, PI: Zhi Li, May 2015 - May 2016
Project title: "Wireless Sensor Networks Based Fire Escaping System and Algorithm Design".
3. **National Natural Science Foundation of China**, Participator, Jan 2015 - Dec 2018
Project title: "Research on Environment Information Collaborative Sensing and Processing in Internet of Things".
4. **Zhejiang Provincial Natural Science Foundation of China**, Participator, Jan 2014 - Nov 2016
Project title: "Research on Optimizing Task Scheduling Strategy in Random Energy Harvesting Internet of Things".

PROFESSIONAL ACTIVITIES

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| Reviewer for IEEE Transactions on Industrial Informatics | 2017 |
| Reviewer for The Computer Journal | 2015 |

EDUCATION

Hangzhou Dianzi University, Hangzhou, China

- M.S., Computer Science and Technology, Mar 2017
- Thesis title: "IoT Based Fire Escaping Algorithm and System Design"
- Advisor: Prof. [Jianhui Zhang](#)

Hangzhou Dianzi University, Hangzhou, China

- B.E., Computer Science and Technology, Jun 2014

SERVICES

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| Teaching assistance for <i>JAVA Programming</i> | Sep 2015 - May 2016 |
| Class monitor | 2014 - 2017 |

PERSONAL HOBBIES

Basketball, Badminton, Cycling, Chinese bamboo flute, Guitar.